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1N4728A THRU 1N4764A

Features

- Wide Voltage Range Available
- Glass Package
- High Temp Soldering: 250°C for 10 Seconds At Terminals

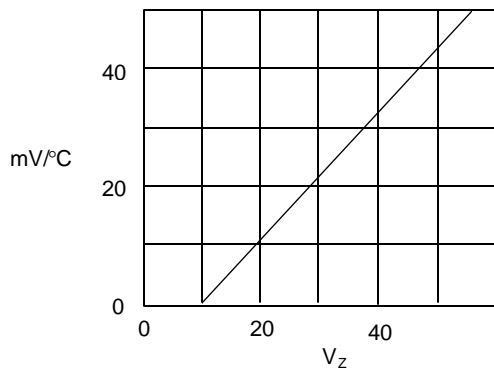
**1 Watt
 Zener Diode
 2.4 to 200 Volts**

Maximum Ratings

- Operating Temperature: -65°C to +200°C
- Storage Temperature: -65°C to +200°C
- 1 Watt DC Power Dissipation
- Power Derating: 10.0mW/°C above 100°C
- Maximum Forward Voltage @ 200mA: 1.2 Volts

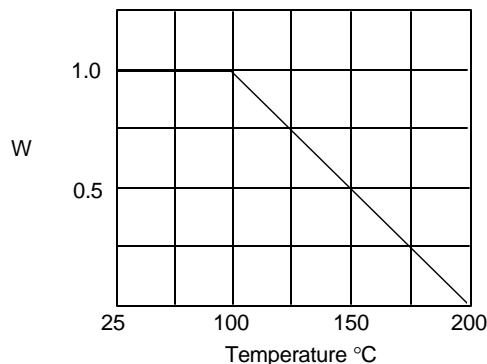
DO-41 GLASS

Figure 1 - Typical Temperature Coefficient

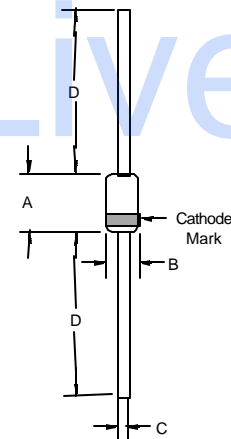


Typical Temperature Coefficient (mV/°C) – versus – Zener Voltage (V_Z)

Figure 2 - Derating Curve

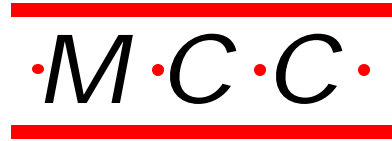


Power Dissipation (W) - Versus - Temperature °C



| DIM | DIMENSIONS | | | | NOTE |
|-----|------------|------|-------|------|------|
| | INCHES | | MM | | |
| A | --- | .205 | --- | 5.21 | |
| B | --- | .107 | --- | 2.72 | |
| C | .030 | .034 | .762 | .864 | |
| D | 1.10 | --- | 27.94 | --- | |

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ELECTRICAL CHARACTERISTICS @25°C

| MCC PART NUMBER | ZENER VOLTAGE V_Z VOLTS | TEST CURRENT I_{ZT} mA | MAXIMUM DYNAMIC IMPEDANCE $Z_{ZT} @ I_{ZT}$ OHMS | MAXIMUM REVERSE CURRENT $I_R @ V_R$ μ A | TEST VOLTAGE V_R VOLTS | MAXIMUM REGULATOR CURRENT I_{ZM} TA = 50°C mA | MAXIMUM KNEE IMPEDANCE $Z_{ZK} @ I_{ZK}$ OHMS | TEST CURRENT I_{ZK} mA | MAXIMUM SURGE CURRENT I_S mA |
|-----------------|------------------------------|-----------------------------|---|--|-----------------------------|---|--|-----------------------------|-----------------------------------|
| 1N4728A | 3.3 | 76 | 10 | 100 | 1 | 276 | 400 | 1.0 | 1280 |
| 1N4729A | 3.6 | 69 | 10 | 100 | 1 | 252 | 400 | 1.0 | 1260 |
| 1N4730A | 3.9 | 64 | 9 | 50 | 1 | 234 | 400 | 1.0 | 1190 |
| 1N4731A | 4.3 | 58 | 9 | 10 | 1 | 217 | 400 | 1.0 | 1070 |
| 1N4732A | 4.7 | 53 | 8 | 10 | 1 | 193 | 500 | 1.0 | 970 |
| 1N4733A | 5.1 | 49 | 7 | 10 | 1 | 178 | 550 | 1.0 | 890 |
| 1N4734A | 5.6 | 45 | 5 | 10 | 2 | 162 | 600 | 1.0 | 810 |
| 1N4735A | 6.2 | 41 | 2 | 10 | 3 | 146 | 700 | 1.0 | 730 |
| 1N4736A | 6.8 | 37 | 3.5 | 10 | 4 | 133 | 700 | 1.0 | 660 |
| 1N4737A | 7.5 | 34 | 4.0 | 10 | 5 | 121 | 700 | 0.5 | 605 |
| 1N4738A | 8.2 | 31 | 4.5 | 10 | 6 | 110 | 700 | 0.5 | 550 |
| 1N4739A | 9.1 | 28 | 5.0 | 10 | 7 | 100 | 700 | 0.5 | 500 |
| 1N4740A | 10 | 25 | 7 | 10 | 7.6 | 91 | 700 | 0.25 | 454 |
| 1N4741A | 11 | 23 | 8 | 5 | 8.4 | 83 | 700 | 0.25 | 414 |
| 1N4742A | 12 | 21 | 9 | 5 | 9.1 | 76 | 700 | 0.25 | 380 |
| 1N4743A | 13 | 19 | 10 | 5 | 9.9 | 69 | 700 | 0.25 | 344 |
| 1N4744A | 15 | 17 | 14 | 5 | 11.4 | 61 | 700 | 0.25 | 304 |
| 1N4745A | 16 | 15.5 | 16 | 5 | 12.2 | 57 | 700 | 0.25 | 285 |
| 1N4746A | 18 | 14 | 20 | 5 | 13.7 | 50 | 750 | 0.25 | 250 |
| 1N4747A | 20 | 12.5 | 22 | 5 | 15.2 | 45 | 750 | 0.25 | 225 |
| 1N4748A | 22 | 11.5 | 23 | 5 | 16.7 | 41 | 750 | 0.25 | 205 |
| 1N4749A | 24 | 10.5 | 25 | 5 | 18.2 | 38 | 750 | 0.25 | 190 |
| 1N4750A | 27 | 9.5 | 35 | 5 | 20.6 | 34 | 750 | 0.25 | 170 |
| 1N4751A | 30 | 8.5 | 40 | 5 | 22.8 | 30 | 1000 | 0.25 | 150 |
| 1N4752A | 33 | 7.5 | 45 | 5 | 25.1 | 27 | 1000 | 0.25 | 135 |
| 1N4753A | 36 | 7.0 | 50 | 5 | 27.4 | 25 | 1000 | 0.25 | 125 |
| 1N4754A | 39 | 6.5 | 60 | 5 | 29.7 | 23 | 1000 | 0.25 | 115 |
| 1N4755A | 43 | 6.0 | 70 | 5 | 32.7 | 22 | 1500 | 0.25 | 110 |
| 1N4756A | 47 | 5.5 | 80 | 5 | 35.8 | 19 | 1500 | 0.25 | 95 |
| 1N4757A | 51 | 5.0 | 95 | 5 | 38.8 | 18 | 1500 | 0.25 | 90 |
| 1N4758A | 56 | 4.5 | 110 | 5 | 42.6 | 16 | 2000 | 0.25 | 80 |
| 1N4759A | 62 | 4.0 | 125 | 5 | 47.1 | 14 | 2000 | 0.25 | 70 |
| 1N4760A | 68 | 3.7 | 150 | 5 | 51.7 | 13 | 2000 | 0.25 | 65 |
| 1N4761A | 75 | 3.3 | 175 | 5 | 56.0 | 12 | 2000 | 0.25 | 60 |
| 1N4762A | 82 | 3.0 | 200 | 5 | 62.2 | 11 | 3000 | 0.25 | 55 |
| 1N4763A | 91 | 2.8 | 250 | 5 | 69.2 | 10 | 3000 | 0.25 | 50 |
| 1N4764A | 100 | 2.5 | 350 | 5 | 76.0 | 9 | 3000 | 0.25 | 45 |

